## Amendment

## In the Claims

1-42 (Cancelled)

- 43. (previously presented currently amended) A mammalian adult undifferentiated cell population isolated by digestion of dissociated neural, endocrine or neuroendocrine tissue with a trypsin like enzyme, in combination with a support material for implantation, wherein the structure of the support material guides the development and shape of new tissue from the cell population and resists external compressive and tensile stresses from the environment and surrounding tissues.
- 44. (previously presented) The undifferentiated cell population of claim 43, wherein the undifferentiated cell population is isolated from adrenal gland or pancreas tissue.

45-53 (Cancelled)

- 54. (previously presented) The undifferentiated cell population of claim 43 isolated by digestion of the tissue with trypsin, washing the cells with buffer and isolation of the cells by centrifugation sufficient to separate the undifferentiated intact cells from the buffer.
- 55. (previously presented)The undifferentiated cell population of claim 43 isolated from the hypothalamus, pituitary, parathyroid, or thyroid.
- 56. (previously presented) The undifferentiated cell population of claim 43 isolated from along the intestinal tract or the aorta.
- 57. (previously presented) The undifferentiated cell population of claim 43 wherein the tissue is digested under conditions equivalent to 0.05% trypsin at 37°C for five minutes

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58. (previously presented) The undifferentiated cell population of claim 43 <u>further</u>

comprising a hydrogel.

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59. (previously presented) The undifferentiated cell population of claim 58 wherein

the support structure further comprises a material selected from the group consisting of a coral,

hydroxyapatite, metallic, inorganic, ceramic, or polymeric fibers, mesh, struts, or sponge.

(previously presented) The undifferentiated cell population of claim 43 wherein

the support structure comprises a polymeric support structure.

61. (previously presented) The undifferentiated cell population of claim 43 further

comprising factors selected from the group consisting of growth factors, nutrients, and drugs.

62. (currently amended) The undifferentiated cell population of claim 58 or 59

wherein the cell population in combination with a support structure is used, wherein the support

structure is useful for spinal cord repair.

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